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(54) PHOTSENSITIVE LITHOGRAPHIC PRINTING PLATE

(57)Abstract:

PURPOSE: To eliminate thoroughly the influence of oxygen and to improve developability by incorporating a higher fatty acid into a photopolymerizable photosensitive resin thereby decreasing considerably the thickness of an oxygen barrier layer consisting of a water soluble resin to be provided on the surface of the photosensitive layer.

CONSTITUTION: The photopolymerizable photosensitive layer of a lithographic printing plate provided successively with the photopolymerizable photosensitive layer and water soluble oxygen barrier layer at 1.5W0.1g/m² on an aluminum substrate subjected to anodic oxidation after sand graining is of the compsn. consisting of an ethylenic unsatd. addition polymerizable compd. which is liquid at an ordinary temp. a polymer which is soluble or swellable with an aq. alkali soln. and permits film formation, a photopolymn. initiator and the higher fatty acid which is solid at an ordinary temp. The higher fatty acid which is solid at an ordinary temp. is exemplified by a lauric acid, tridecylic acid, myristic acid, pentadecylic acid, palmitic acid, lacceric acid, etc. the higher fatty acids having $\geq 60^{\circ}\text{C}$ m.p. are particularly preferable among said acids. The amt. of the higher fatty acid to be added is 0.5W10wt%, more preferably 1W5wt% by the weight of the total compd.

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ABSTRACT:

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